

## **REMARKS**

In response to the Examiner's Action mailed June 26, 2003, the Applicants respectfully request reconsideration of rejected claims in view of the following remarks. Claims 9-13 and 27 are allowed. Claims 18, 19, 22-24, 36 and 37 are rejected. Claims 36 and 37 have been amended to address rejections made under §112 First and Second Paragraphs. All other Claims are canceled.

### **I. Rejections to Claims 18, 19, 22-24, 36 and 37 Under §112 First Paragraph**

The Examiner rejected 18, 19, 22-24, 36 and 37 Under §112 First Paragraph as containing subject matter which was not described in the specification in such a way as to enable one of ordinary skill in the art to make or use the invention.

Regarding Claim 36, the Examiner asserts that the disclosure fails to reveal vector manipulation especially regarding outer product practice where the vectors are in different dimensional space. In response and as discussed with the Examiner in a telephone interview on August 5, 2003, the phrases “for  $i = 1, 2, \dots m$ ” and “for  $j = 1, 2, \dots n$ ” have been removed from Lines 2-3 and 6-8 of the claim. Whereas the basis for the §112 First paragraph has been removed, the Applicants therefore request the Examiner to pass this claim to issue.

Regarding Claim 37, the Examiner asserts that the summation of outer products, represented by  $T_{ij}$ , is not disclosed, and therefore causes a new matter rejection. In response, as also discussed in the telephone interview of August 5, 2003, the support for obtaining the sum of outer product  $V_i^a V_j^a$  as recited in Claim 37 include Page 6 Line 18 and Page 46 Line 9. Therefore, the Applicants maintain that the specification supports Claims 37, and respectfully request the Examiner to remove

the §112 first paragraph rejection of claim as well as its dependent Claims 18-19 and 22-24 and grant allowance of these claims.

## **II. Rejections of Claims 18, 19, 22-24, 36 and 37 Under 35 U.S.C. §112 Second Paragraph**

The Examiner has rejected Claims 18, 19, 22-24, 36 and 37 under 35 U.S.C. §112 second paragraph being indefinite for failing to particularly point out and distinctly claim the subject matter that the Applicant regard as the invention. In particular, clarification via clearer claim wording was requested for Claims 36 and 37.

Regarding Claim 36, Examiner requested clarification concerning relationship between determining the concentration of dimeric oligomers as recited in the last three lines of the claim, and obtaining an outer product matrix as recited in lines 1-3 of the claim. In response, as discussed during the telephone interview of August 5, 2003, the Applicants have amended the last line of Claim 36 to recite, "said concentration corresponding to said outer product matrix."

Regarding Claim 37, the Examiner requested clarification concerning the use or cooperativity of the outer product in part (a) in the claimed method of claim 37. In response, as discussed during the telephone interview of August 5, 2003, the Applicants have amended Line 8 of part (a) in Claim 37 to recite, "forming a memory pool of said sets of dimeric oligomers ...." In addition, to further clarify the cooperativity between part (a) and part (b) of Claim 37, Line 1 of part(b) in Claim 37 has been amended to recite, "said memory pool of dimeric oligomers...."

### III. Allowable Subject Matter

The Examiner has indicated that Claims 9-13 and 27 are allowed.

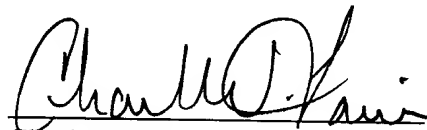
### IV. Conclusion

In view of the foregoing amendment and remarks, the Applicants now see all of the Claims currently pending in this application to be in condition for allowance and therefore earnestly solicit a Notice of Allowance for Claims 9-13, 18-19 22-24, 27, 36 and 37.

The Applicants request the Examiner to telephone the undersigned attorney of record at (972) 480-8800 if such would further or expedite the prosecution of the present application.

Respectfully submitted,

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Dated: 10/7/03

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